

ABSTRACT

An optical transmitter for transmitting a first output data signal and a second output data signal, the optical transmitter comprising: a phase-locked-loop, the phase-locked-loop operable to receive a reference clock signal; a clock-recovery circuit, the
5 clock-recovery circuit coupled to the phase-locked-loop, the clock-recovery circuit operable to receive a first input data signal; a latch-decision circuit, the latch-decision circuit coupled to the clock-recovery circuit; a latch, the latch coupled to the latch-decision circuit, the latch operable to receive the first input data signal and the second input data signal; a first electro-optical converter, the first electro-optical converter
10 coupled to the latch, the first electro-optical converter operable to transmit the first output data signal; and a second electro-optical converter, the second electro-optical converter coupled to the latch, the second electro-optical converter operable to transmit the second output data signal.